



## XVI Carbohydrate Conference Re-scheduled on December 6-7, 2001

### First Circular

The Association of Carbohydrate Chemists and Technologists India (ACCTI) in collaboration with Research Institutes and Universities, has been organizing Carbohydrate Conferences since 1984 and offers a common platform for scientists, technologists, academicians and industrialists for fruitful interaction among themselves.

The Association of Carbohydrate Chemists and Technologists, India (ACCTI) is a scientific body consisting of academicians, scientists and industrialists actively engaged or interested in carbohydrate research and related areas in the country.

The Organizing Committee of the XVIth Carbohydrate Conference (CARBO XVI) and Association of Carbohydrate Chemists and Technologists, India (ACCTI) cordially invite you and your colleagues who are interested in the various aspects of carbohydrate research, to participate in the CARBO XVI meeting to be held at Central Tuber and Crop Research Institute (CTCRI) from December 6-7, 2001 in Thiruvananthapuram (please note the change of date). The theme of the CARBO XVI is "Carbohydrates in the New Millennium - Structure, Synthesis, Function and Application".

You are requested to contact Dr. S. N. Moorthy, Senior Scientist, Central Tuber Crops Research Institute, Sreekariyam, Thiruvananthapuram-695017, Kerala, for further information and circular. Telephone Nos. 0471-598551 to 598554 (office); 0471-554 006 (Residence); Fax : 0471-590 063; E-mail : sn\_moorthy@rediffmail.com; moorthy@ctcri.res.nic.in. We look forward to welcoming you to the city of Thiruvananthapuram.

B. P. CHATTERJEE

# CARBOHYDRATE NEWS LETTER

Issue: 4 July 2001

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## Role of Information Technology and Human Resource Development for Industrial Polysaccharide Based Industry in India\*

N. K. Mathur

Professor B. N. Mankad, Shri Uday Merchant, Professor H. C. Trivedi, Dr. P. L. Soni, Professor C. P. Patel, delegates of the XV Carbohydrate Conference, invited guests, ladies and gentlemen, I am happy to be here to attend the XV Carbohydrate Conference, organised jointly by the Department of Chemistry, Sardar Patel

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University and the ACCT(I). Many of you will remember that in the year 1995 we had an opportunity to attend an earlier conference at this University. This explains the importance and value of the subject and the conferences and involvement of this University in research and developments in carbohydrate related field. For me the 1995 conference, which was held here has another significance. In February 1995, our beloved founder president of ACCT(I), Dr. H. C. Srivastava expired and as the vice-president of this Association at that time, I was asked to shoulder the responsibility of holding the chair and office of the president of this Association. This I have continued to hold for six years along with an efficient team of office bearers of the Association, particularly Dr. P. L. Soni, and Dr. A. K. Sen, secretary and joint secretary respectively, to whom I give credit of running the show. The contribution of Dr. Srivastava in generating human resource and technological know-how to carbohydrate industry in India is well known and the Association shall continue to work to fulfill his dream.

Vallabh Vidyanagar has the distinction of being the twin-township along with the famous milk-city of India, Anand. To me Sardar Patel University is like my second alma-mater where, as a young teacher of the University of Jodhpur, I had an opportunity of attending a summer school in the year 1963 and learnt some more chemistry from professors R. D. Patel, B. N. Mankad and other members of the faculty of that time, many of whom are also present in this occasion. Since then I developed a very close association with this University and I had the good fortune of periodically visiting and observing the progress of this University.

The theme of this year's conference includes chemistry of carbohydrate polymer, bioscience and applications of carbohydrate in medicines. Polysaccharides related industries such as textile, starch, guar gum and isapgole have a large base in Gujrat State, which explains the interest of the state in this field.

I must congratulate Dr. A. K. Sen and Dr. P. L. Soni for successfully continuing the publications of ACCT(I) i.e. the proceedings of the annual conference in a book form since 1991, 'Trends in Carbohydrate Research, Annual Volumes' and 'Carbohydrate News Letter' (CNL) since 1996. I hope this activity of ACCT(I) will continue. Regarding publishing activity, I may also mention about my own contribution. The idea emerged from a suggestion given to me by Dr. A. K. Sen to write a general article on polysaccharide gums of Indian origin. These articles and five more polysaccharide related articles were published in Chemical Weekly (October, 1999 onwards). These can be now reprinted in CNL or in the proceedings of the ACCT(I) conference.

These publications were related to the animal polysaccharides Chitin-Chitosan, perspectives of Hydrocolloids or Gum Industry in India, Aloe-vera polysaccharide, Gums as thickener and stabiliser in food

(part-I thickener and part-II gelling agents), Hemicellulose and use of rheology as applied in food technology. I have attempted to convey some basic information about polysaccharides in these publications, which might be useful to the industry and the end-users. These publications received an over-whelming response from the readers and I have been receiving letters about how ACCT(I) can help industries with their problems about human resources and new plans.

Certain other magazines including those on cosmetics and perfumery requested me to permit republication of certain articles in their on-coming issues. I have suggested to many of the persons who wrote to me, to seek the expertise of scientists and technologists of ACCT(I) for their problems. I am convinced that the expanding field of information technology will be very helpful in improving the performance of carbohydrate based industry in India.

From the presentations of some of our conferences, I have observed that fewer papers on carbohydrate related enzymes are being presented at our conferences. This field should get more attention of carbohydrate scientists and technologists, so that progress can be made in the field of enzyme modification of tamarind, guar gum and certain other polysaccharides.

I also take this opportunity to remind you that the very first conference on carbohydrates was held at ATIRA, Ahmedabad in the year 1984, sponsored by the CSIR and ATIRA. That conference was named 'Conference on Industrial Carbohydrates' and the idea of starting ACCT(I) also originated at that time. It was then considered to call the subsequent conferences as 'Carbohydrate Conference' only in order to broaden their scope and activity.

I thank the host organiser of this conference, the Department of Chemistry Sardar Patel University, and its authorities and persons who must have been busy for quite some time in making preparation for this conference. I am also thankful to the delegates of this conference who have come from all-over the country to attend the conference and make it a success. I am sure we are going to have lively and useful deliberations for the two days of this conference which shall be useful to the participants.

\*Based on the Presidential talk at the XV Carbohydrate Conference held at Sardar Patel University, Vallabh Vidyanagar, Gujrat, on October 16-17, 2000.



### *Write to us.....*

News items, about meetings, positions available, your comments, review articles (2-3 pages), scientific matters etc.



## Minutes of the XV ACCT(I) Annual General Body meeting held at Sardar Patel University on 16th Oct., 2000.

The President, Prof. N. K. Mathur presided over the meeting and welcomed the members. Twenty eight regular members of the Association attended the AGB meeting. Dr. P. L. Soni, Hon. Secretary, presented the minutes of the XIV AGB held at IIT Madras, Chennai, 16th Dec., 1999, which was accepted unanimously. Motion for the acceptance of the minutes was proposed by Dr. Vasudev Singh and seconded by Mr. P. K. Hissaria. The Secretary also informed the house about the Association's efforts in making new members. In the year 1999-2000, 15 new life members and 2 ordinary members were enrolled.

In the absence of the treasurer, Mr. P. K. Gupta, Scientist, Forest Research Institute, was asked by Hon. Secretary to place the accounts (1999-2000) of the Association. The house was informed that the expenditure incurred during the period was Rs. 10,500/-. The Association has Rs. 29,014.33 in S/B account and Rs. 75,770.00 as fixed deposit, as on 16th Oct., 2000. Statement of accounts was passed unanimously (proposed by Dr. V. P. Kapoor and seconded by Dr. S. N. Moorthy).

The Hon. Secretary placed before the house a letter received from ADG, ICAR and Director, CTCRI for giving their approval to hold XVI conference at CTCRI, Thiruvananthapuram. Invitation to hold the XVI conference at CTCRI, Thiruvananthapuram, was accepted by the AGB unanimously. At this point Dr. S. N. Moorthy formally invited all the members to Thiruvananthapuram to participate in the XVI Carbohydrate Conference in full strength and make it a grand success.

Dr. P. L. Soni, Hon. Secretary, then placed before the house nominations received for the new executives for (2000-2002) and also invited proposals if any, besides the proposals that have been received already. The new executive committee members were elected unanimously.

Dr. Soni placed before the house the accounts of CNL and the letter received from Dr. Asish Kumar Sen Jr., Editor, about the financial position of CNL. Dr. Soni emphasized that at least advertisements worth Rs. 15000/- per annum should be sent to CNL for its smooth running. Dr. Soni requested the industry to take personnel interest in this activity and book the advertisement for a complete year in CNL by sending DD in favour of 'Carbohydrate News Letter' to Dr. A. K. Sen Jr. The industry people promised to cooperate fully with Dr. A. K. Sen who is doing an excellent job. It was also decided that Dr. A. K. Sen would continue as editor for CNL. If he needs he may opt for more active members in the advisory board.

Dr. Soni put up the proposal to the house for electing fellow of the ACCT(I) so that the elected members could also put up the FACCT(I) with their name as in the case of elected members of INSA etc. It was proposed to invite suggestions from the members to frame the guidelines and rules.

Mr. Nikunj Dhuldhoya and Mr. Parikh proposed that patrons of the Association who meet certain criteria in the production and Q.C. might be allowed to use the logo of the Association in selective and discretionary way. It was decided that a committee would be formed to study the proposal in depth for submission to the executive for further necessary action. Dr. Soni also asked the members to send their views.

Dr. S. N. Moorthy wanted to know whether it is possible to have a website on the internet for the Association? Dr. Soni informed that it would not be feasible at present.

Dr. N. K. Mathur thanked the members for cooperating with him in his 6 years tenure as President of the Association. Dr. Soni placed on record the valuable services rendered by Dr. N. K. Mathur just after the sad demise of Dr. H. C. Srivastava founder member and the first President of the Association.

The new Executive Committee took over charge from the old Executive Committee. The new President Prof. B. P. Chatterjee appreciated the efforts of the old Executive Committee in general and Prof. N. K. Mathur, Dr. P. L. Soni and Dr. A. K. Sen in particular to make the Association comfortably strong by bringing out CNL and Trends in Carbohydrate Chemistry.

Finally Dr. Soni gave the vote of thanks. He thanked the Vice-chancellor of S. P. University for giving the consent to hold XV Carbohydrate Conference and extending full-hearted co-operation. He also thanked Prof. H. C. Trivedi and Prof. C. P. Patel for making excellent arrangements for the delegates, the staff and research scholars for their active help and co-operation.

P. L. Soni



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For further information contact Dr. A. K. Sen, Editor, CNL. Draft should be made in favour of "Carbohydrate News Letter" payable at Kolkata.

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## MEMBERSHIP LIST

I am privileged to announce the complete list of members of the ACCT(I) upto 2000. I also take this opportunity to welcome the new members of the Association. At the AGB meeting, Chennai, requests were made to publish the list with full address. So here it is in alphabetical order (surname). To strengthen the Association we need more members. So please come forward, tell your colleagues / students to become members of the Association.

No.	Name	Surname	Address	Membership No.
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No.	Name	Surname	Address	Membership No.
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65.	Dr. D. K.	Rawal	Dept. of Chemistry, Sardar Patel University, Vallabh Vidya Nagar - 388120, Gujarat	LM/54/98
66.	Dr. Nirmolendu	Roy	Dept. of Biological Chemistry, Indian Association for the Cultivation of Science, Kolkata - 700 032	LM/44/98
67.	Dr. B.	Saha	Sr. General Manager (Tech.), Anil Starch, Anil Road, Ahmedabad-380025	LM/95/2000
68.	Mr. K. V. S. S.	Sai Ram	Technical Director, Prathistha Biotech Ltd., Plot No.1, Righumal Mansims, S.P. Road, Secunderabad	LM/75/2000
69.	Dr. Asish K.	Sen (Jr.)	Dept. of Organic Chemistry, Indian Institute of Chemical Biology, Kolkata - 700 032	LM/9/88
70.	Dr. Ashis K.	Sen (Sr.)	Dept. of Organic Chemistry, Indian Institute of Chemical Biology, Kolkata - 700 032	LM/10/88
71.	Dr. Arun	Sethi	Chemistry Department, Lucknow University, Lucknow -226 007	LM/27/97
72.	Mr. B. D.	Shah	H.B. Gum Industries Pvt. Ltd., Plot No.11/B, G.I.D.C., Kalol - 382725, Gujarat	LM/4/87
73.	Mr. Brij Raj	Sharma	Chemistry Division, Forest Research Institute, Dehra Dun - 248006.	LM/64/2000
74.	Dr. Harish K.	Sharma	Asst. Professor, Food Technology Dept., Sant Longowal Institute of Engg. & Technology, Longowal, Distt. Sangur	LM/63/2000
75.	Dr. Inder Pal	Singh Aidhen	Asst. Professor, Dept. of Chemistry, IIT Madras Chennai- 600 036	LM/ 39/99
76.	Dr. P. P.	Singh	Manager (R&D), Integrated Research Centre, India Tobacco Co. Limited, Peenya, Bangalore	LM/6/88
77.	Dr. Subodh K.	Singh	3-J-31, Jawahar Nagar, Sri Ganga Nagar, Rajasthan- 335 001	LM/24/96
78.	Mr. Udyan	Singh	Starch & Allied Industry, 23, II Main Road, Vyalikawad, Bangalore - 560 003	LM/5/87
79.	Dr. Vasudev	Singh	Scientist, Grain Science Technology Department, CFTRI, Mysore - 570 013	LM/21/96
80.	Dr. Rekha	Singhal	Professor, Food & Fermentation Tech. Division, UDCT, Matunga, Mumbai - 400 019	LM/93/2000
81.	Dr. Vijay K.	Sinha	301, Vaidh Palace, Nana Bazar Vallabh Vidyanagar-388120, Gujarat	LM/97/2000
82.	Dr. Amalendu	Sinha Babu	Dept. of Chemistry, University of Burdwan, Burdwan, West Bengal - 713 104	LM/80/2000
83.	Mr. K.	Siva Reddy	Project Manager, Starchem Industries Ltd., Nandikandi, P.O. Sadasivapet, Medak Distt. A.P. - 502306	LM/26/97
84.	Dr. P. L.	Soni	Scientist-SF & Head, Chemistry Division, Forest Research Institute, Dehra Dun - 248006.	LM/19/93
85.	Mr. Ganesh A.	Thakur	Fransis Chawl No.1/6, Indira Nagar, Kanjar Marg (E), Mumbai - 400 042.	LM/61/2000
86.	Shri. B.	Tosh	Cellulose Pulp & Paper Division, R.R.L. Jorhat, Jorhat, Assam - 785006	LM/40/98
87.	Dr. Y. C.	Tripathi	Scientist-SE, NWFP Division, Arid Forest Research Institute, New Pali Road, Jodhpur - 342 005	LM/45/98



No.	Name	Surname	Address	Membership No.
88.	Dr. G. K.	Trivedi	Professor, Department of Chemistry, IIT Bombay, Powai, Mumbai- 400 076	LM/72/2000
89.	Dr. H. C.	Trivedi	Prof., Dept. of Chemistry, Sardar Patel University, Vallabh Vidhyanagar - 388120, Gujarat	LM/15/92
90.	Dr. Avani R.	Umath	Lecturer, Sardar Patel College of Engg., Andheri (W), Mumbai.	LM/98/2000
91.	Mr. C. S.	Vekatakrishna	17, IIT Layout, Bangalore - 560 085.	LM/32/97
92.	M/s Devang Corporation		5/3, Navarang Swastik Charasta, 2 nd Floor, Navrangpura, Ahmedabad - 380 009	LM/7/88
93.	M/s Santosh Starch Product Pvt. Ltd		New Cloth Market, 71, New Cloth Market, 1st. Floor, Ahmedabad - 380002	LM/2/88

### **Institutional Membership**

1.	Chief Executive	Cellulose Products of India, P.O. Kathawada Maize Products, Distt. Ahmedabad - 382430	IM/6/88
2.	Hindustan Gum & Chemicals Ltd.	Birla Colony, Bhiwani, Hariyana - 125 021	IM/3/88
3.	Laxmi Starch Ltd.	Das Chambers, 25 Dalal Street, Fort, Mumbai-400023	IM/1/87
4.	Dr. K.C.M. Raja	Scientist, Regional Research Laboratory, Thiruvananthapuram - 695 019, Kerala	IM/4/88
5.	Dr. U.S. Sarma	Central Coir Research Institute, P.O. Kelavoor, Distt. Alleppey, Kerala - 688 522	IM/5/88
6.	Universal Starch Chem. Allied Ltd.	Dondaicha, Dist. Dhule - 425 408 (M.S.)	IM/2/88

### **Patron**

1.	Mr. Kamal Kant Joshi	Bardoli Agro Industries Pvt. Ltd., Kale Marg (Kerla West) Mumbai - 400 070	P/1/99
2.	Mr. Uday B. Merchant	Managing Director, Lucid Colloids Limited, 401, Navbharat Estate, Zakaria Bunder Road Sewri (West), Mumbai - 400 015	P/2/2000

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## What do you think ?

Mr. Nikunj C. Dhuldhoya and Mr. B. S. Parikh proposed that patrons of the Association who meet certain criteria might be allowed to use the 'logo' of the Association. The matter was discussed at the XV th AGM. A committee comprising of Mr. P. K. Hissaria (Jodhpur), Mr. N. C. Dhuldhoya (Mumbai), Mr. Kamalkant Joshi (Mumbai), Mr. A. P. Dadoo (Bhiwani), Dr. B. Saha (Ahmedabad) and Prof. N. K. Mathur (Jodhpur) as coordinator, was formed to decide on the following points:

1. Whether the permission of the Association to use its 'logo' be obligatory or discretionary?
2. What should be the status of the Industries in national and international context?
3. Whether all companies or only companies who have obtained ISO would be considered for using 'logo'?
4. How will the Association benefit if its 'logo' is allowed to be used by the companies?

*The report of the committee constituted at the XV Annual General Meeting of the Association of Carbohydrate Chemists and Technologists(India) (ACCTI) at Sardar Patel University, Vallabh Vidyanagar, for considering a resolution by Mr. N. C. Dhuldhoya, suggesting to allow polysaccharide/carbohydrate industries to use the 'logo' of ACCT(I) on their products, as an assurance of a quality product.*

*By the Coordinator Dr. N. K. Mathur.*

Only one response, an e-mail from Dr. P. L. Soni was received in addition to one from Mr. N. C. Dhuldhoya. I had an opportunity to personally meet two of the other members, i.e. Dr. B. Saha of Anil Starch and Mr. P. Hissaria of Sunita Minechem. In addition I have sent my own views on this to Dr. Soni.

Although not many industries are at present interested to use the ACCT(I) 'logo' as they do not see any immediate advantage or quality assurance by use of the 'logo', we are of the opinion to keep the matter open and again put it before the industries during the next general body meeting, about the availability of this facility, subject to following conditions :

1. The ACCT(I) shall have the final discretion to allow any carbohydrate manufacturer to use the logo, which shall be considered to be quality assurance certification from the Association. The company should be large enough and have qualified staff on carbohydrates; manufacture and applications.
2. The company should be of repute and be a limited or a private limited concern, and be a corporate member patron of ACCT(I).
3. The products of the company should conform to national and international standards e.g. IP, BP, ISI, Agmark etc.
4. The company shall follow a good manufacturing practice and have in-house quality control facility and preferably, design and development facility or in-house R&D division. The company should have qualified manufacturing, quality control, supervisory and administrative staff. There shall be proper office and laboratory facilities. Good and hygienic conditions shall prevail where food, cosmetics and pharmaceutical grade products are made.
5. Companies exporting their products shall be particularly preferred, so that the use of logo and quality certification can help them to boost their export. Currently, in the USA, manufacturers of Aloe Vera gel, a carbohydrate product, and its users in cosmetics and skin care products have voluntarily formed 'Aloe Science Council', which, on certification of the quality products, permit a manufacturer to use its logo as a quality assurance certification. A team of experts, appointed by ACCT(I) shall be invited to visit the manufacturing site to examine and recommend the use of logo.
6. Initially the permission may be given for a period of two years, subject to continued renewal when the above conditions are fulfilled.
7. It is considered that the use of logo by a company can ultimately become a sign of quality assurance and help in boosting the business.
8. By allowing the use of logo the ACCT(I) may also be benefited financially and may also increase the membership.

There has been a general agreement on these recommendations by the four members of the committee referred above. Any other suggestions from the remaining members can also be incorporated into it. I am sending a copy of this report to Mr. A. P. Dadoo, and to the President, ACCT(I). Copies of this may also be sent to the office holders of ACCT(I) and remaining members of the committee, as I don't have a complete list and addresses.

We consider you as our valued member & well wisher, and would like to know your opinion about this. Send your views/suggestion to Prof. N. K. Mathur or Dr. P. L. Soni or Dr. A. K. Sen before the final decision is made at the XVI AGB meeting in November 2001.

*You do not really understand something unless you can explain it to your grandmother – Albert Einstein*



**ASSOCIATION OF CARBOHYDRATE CHEMISTS & TECHNOLOGISTS (INDIA)**

Forest Research Institute, Dehra Dun - 248006

E.Mail : sonipl@icfre.up.nic.in

Phone (O): 0135-752671 Extn : 4207

Fax : 91-0135-756865

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4. Official capacity/ designation /nature of job:

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(Tick the appropriate one) Patron ( ) Institutional ( )

6. Highest academic qualification :

Degree/Diploma	Institution/Univ.	Specialization	Year of passing
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7. Publications: Number: [ ] Field:

Patent: Number: [ ]

Date & Place:

Signature of applicant

8. I propose Dr./Shri/Smt. \_\_\_\_\_  
for the membership of the Association.

Signature, Name, & Address of the proposer.

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PRESIDENT/HON. SECRETARY

Application along with subscription only by D.D. or M.O., in favour of Association of Carbohydrate Chemists & Technologists (India), to be sent to the Hon. Secretary, Dr. P. L. Soni, Scientist-SF, Head, Chemistry Division, Forest Research Institute, P.O. New Forest , DEHRA DUN, U.P. Pin - 248 006





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Honorary Member:	Carbohydrate Chemists of eminence in India & abroad.
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Kindly send your subscription by D.D. or M.O. along with duly filled Membership form on or before 30th September for the Year 2001, to the Hon. Secretary, Dr. P. L. Soni, Scientist-SF, Head, Chemistry Division, Forest Research Institute, P.O. New Forest, DEHRADUN - 248 006, U.P.

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## Young Scientist Award

To encourage young students, the Association of Carbohydrate Chemists & Technologists (India) is giving a cash award and a citation for the best oral/poster presentation at the "Carbohydrate Conference" every year. Only research scholars, research associates etc. (below the age of 30) are eligible for this award.

At the XV Carbohydrate Conference, the paper entitled "Preparation of high quality and high yield alpha- cellulose from cotton linter" by Rajdev Rawat, Sanjay Naithani, S. V. Singh and P. L. Soni (OP-8) was judged as the best oral presentation.

The paper entitled "Intermolecular Michael Addition of benzyl amine to sugar derived  $\alpha,\beta$ -unsaturated ester: synthesis of 1-deoxy-D-glucosyl and L-ido-homonojirimycin, 1-deoxy-castanospermine and 1-deoxy-8A-epi-castano-spermine" by Nitin T. Patil, Jayant N. Tilekar and Dilip D. Dhavale (PP-1) was judged as the best poster presentation.

Our heartiest congratulations to Mr. Nitin Tukaram Patil and Mr. Rajdev Rawat.



**RAJDEV RAWAT** is a research scholar at the Chemistry Division, Forest Research Institute Dehra Dun. He is working on a research project entitled "To develop a technical know-how to prepare high purity Alpha Cellulose from Cotton, Bamboo, Eucalyptus and Bagasse" – under the able guidance of Dr. P. L. Soni.

Born in May 1970, Rajdev graduated (1993) from HNB Garhwal University and obtained his master's degree from the same university in 1995 with distinction. Rajdev takes an active interest in the popularization of science. He is deeply concerned about the environmental pollution and participates in social activities to promote environmental awareness among common people.



**NITIN TUKARAM PATIL** is a research scholar at the Department of Chemistry, University of Pune, Pune, since September 1997. Under the able guidance of Dr. Dilip D. Dhavale, he is working on "Synthesis of Polyhydroxy-lated Piperidine and Indolizidine alkaloids from D-glucose".

Born in August 1975, Nitin graduated (1995) from North Maharashtra University, Jalgaon, and obtained his master's degree (1997) from the same University. He has an excellent academic record throughout. Besides his keen interest in research, Nitin is also a voracious reader.

**Do you think that ACCT(I) should elect fellows so that the elected members could put up FACCT(I) with their names as in the case of elected members of other national bodies? We invite suggestions from you to frame the guidelines and rules.**

**Please write to Dr. P. L. Soni or Dr. V. P. Kapoor or Dr. A. K. Sen Jr. before the XVI AGB meeting in November 2001.**

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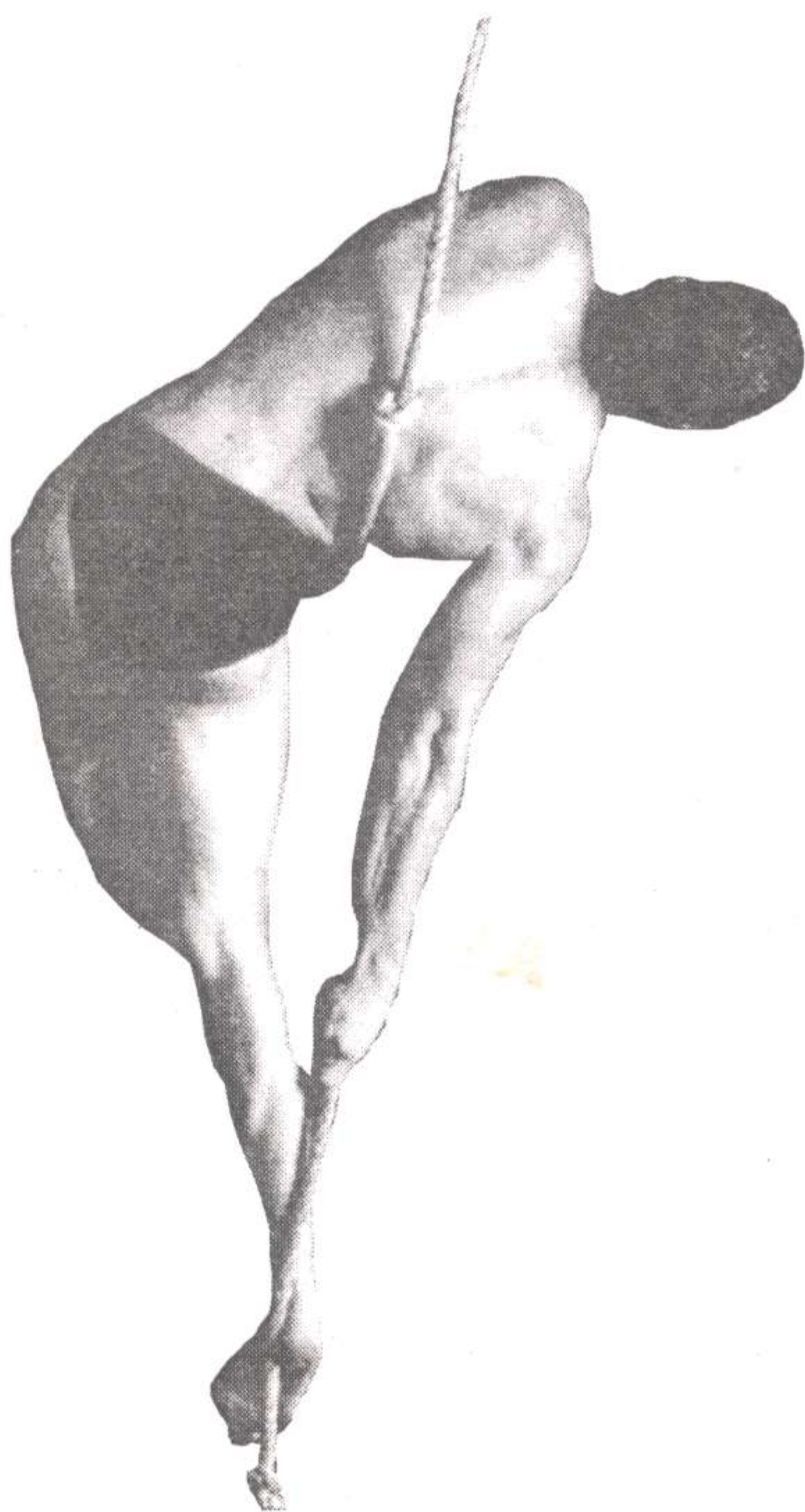
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